Golvo 8000 / 8008

Service Manual

English

Prod. No.	2000014	Golvo 8000
	2000015	Golvo 8008
	2000019	Golvo 8008 LowBase
	2000024	Golvo 8000 Classic
	2000025	Golvo 8008 Classic

Golvo with fixed hand control:

Prod. No.	2000034	Golvo 8000
	2000035	Golvo 8008
	2000039	Golvo 8008 LowBase

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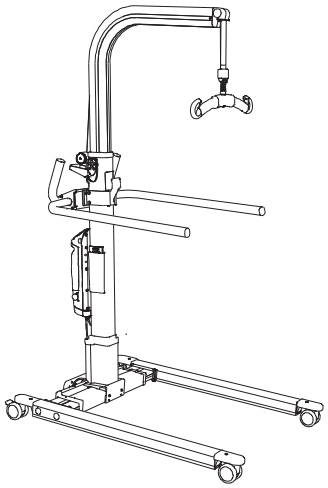
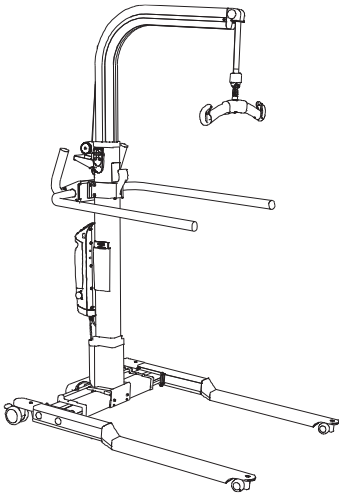
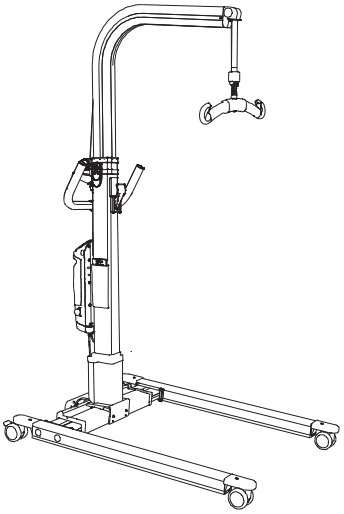
Proj. 1728,1707



Golvo 8000 / Golvo 8008



Golvo 8008 LowBase



Golvo 8000 Classic / Golvo 8008 Classic

Liko
A Hill-Rom Company

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and using original Liko spare parts.
For information regarding Service and Maintenance education, contact your Hill-Rom/Liko representative.
For contact information please visit our website: **www.liko.com**

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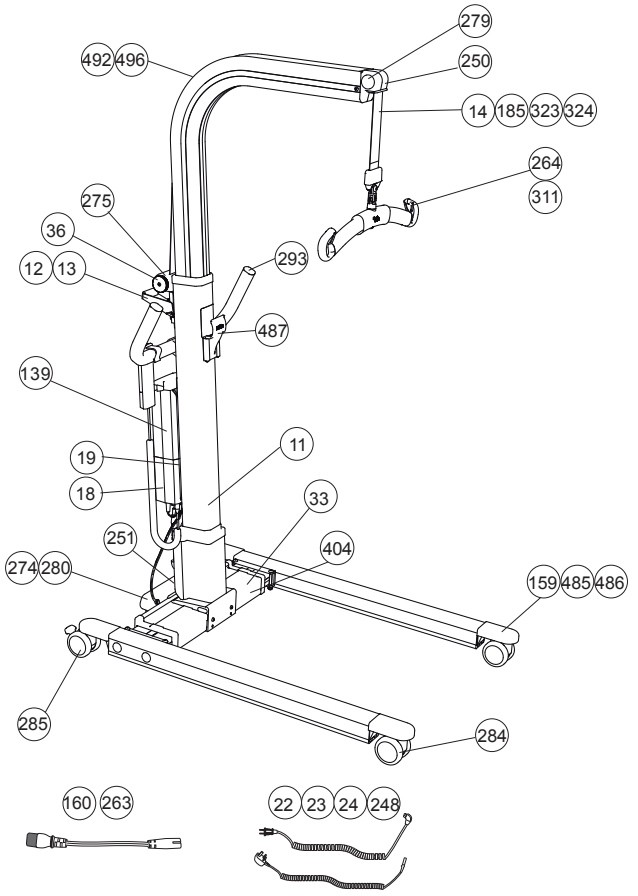
Table of Contents

Page

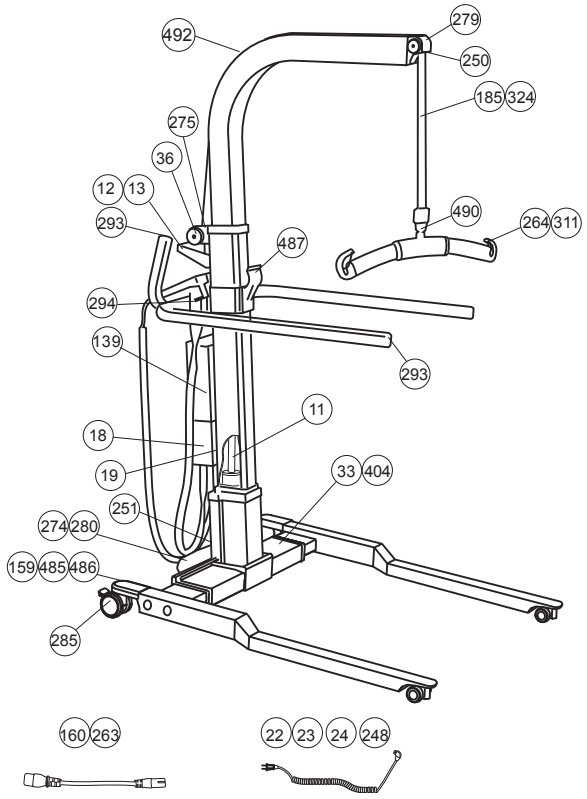
1.0 Table of contents 3
2.0 Spare Parts Position....5
3.0 Technical Data
3.1 Measurments Golvo 8000/8008 7
3.2 Measurements Golvo 8000 Classic/ 8008 Classic 8
3.3 Golvo with IR hand control 9
3.4 Golvo with fixed hand control 10
4.0 Troubleshooting
4.1 Golvo with IR hand control....11
4.2 Golvo with fixed hand control....12
4.2 CBL20 12 13
5.0 Spare Parts Data (Spare Parts/Golvo model) 14
5.0 Spare Parts List (Spare Parts information)....18
5.12 Emergency Lowering Device Golvo, grey 26
5.13 Body/Handle set for Emergency Lowering Device 28
5.14 Lift Strap G7 / G8....30
5.20 Hand control 6-Button....32
5.33 Gear Rack set 33
5.36 Spring Magazine....35
5.159 Front Fork Cover 36
5.185 Lift Strap G77 ES / G88 37
5.250 Reinforcement Plate Golvo....39
5.264 Latch Universal Sling bar....40
5.274 Motor for Base Width Adjustment Golvo, grey....41
5.275 Plastic Housing, grey....42
5.279 Roll Frame Attachment Golvo, grey....44
5.280 Base Motor Cover, grey....45
5.284 Front Wheel 75 mm Standard 46
5.285 Rear Wheel 75 mm Standard 47
5.292 Hook for Hand control....48
5.293 End Cover Handle/Arm Support, grey 49
5.294 End Cover Armrest, grey 50
5.311 Latch, composite 52
5.323-324 Easy Strapper G7 / G8 53
5.330 Golvo 7007 / 8008 LowBase kit....54
5.333 Wireless Hand control HBL....56
5.336 Control Unit by S/N....57
5.336C Control Unit by S/N, Cable 59
5.348-349 Extension cable CBL 61
5.350 Extra Battery Box....62
5.351 Beltclip HBL20 63
5.352 Clips with hook HBL20 64
5.353 Charge Cable Hook 65
5.354 Hand control hanger 66
5.397 Q-link 67
5.398 Lift strap joint 69
5.404 Friction plates 2.8-3.4 mm 71
5.411 Control Unit CBL, Golvo 73
5.411C Control Unit CBL, Golvo cable....75
5.419 Adapter Golvo (for Scale)....77
5.420 Limit Switch Box 78
5.421 Limit Switch PCBA....79
5.422 Locking device CBL20....80
5.423 Actuator G8 / G88....81
5.485 Fork locking attachment 83
5.486 Wheel Fork 84
5.487 Parking bracket....85
5.490 SlingBar Assembly set....86
5.492, 496 Lift Strap Cover Strip 87
5.511 Locking Ring CBL....88
6.0 Service, Control Unit CBL
6.1 Parameter Code Key 89
6.2 Reset Service Interval Parameters 90
7.0 Liko Service System....91
8.0 Liko Diagnostic System - Service....92
9.0 Periodic Inspection....93
10.0 Preventative Maintenance....97
11.0 Product Changes 107

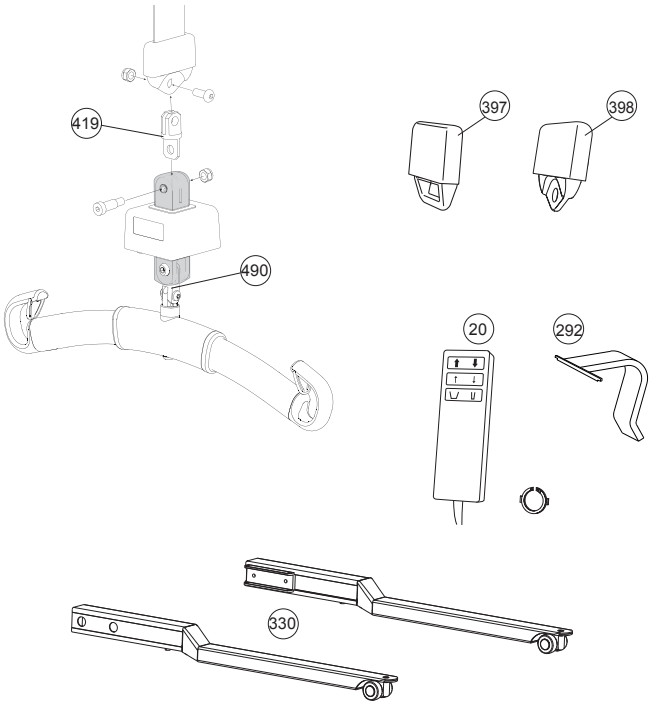
Spare Parts Position

PROD. NO.	PRODUCT
2000050	Golvo 7000ES Classic
2000051	Golvo 7007ES Classic

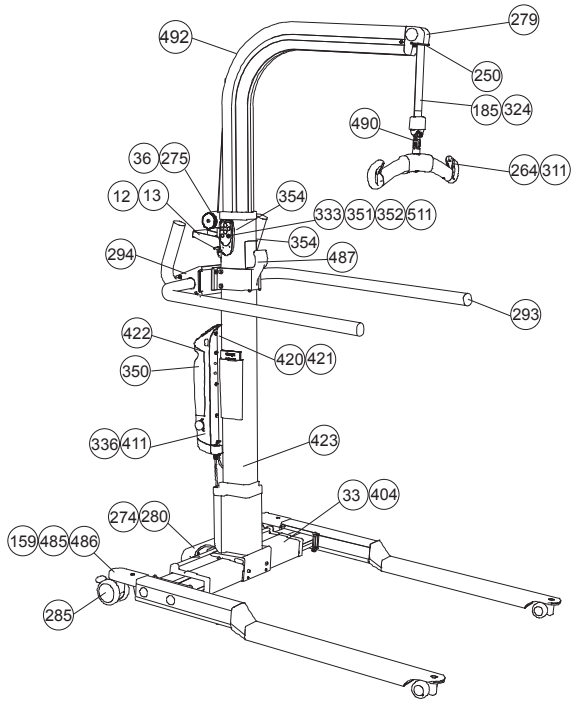


PROD. NO.	PRODUCT
2000061	Golvo 7007 LowBase





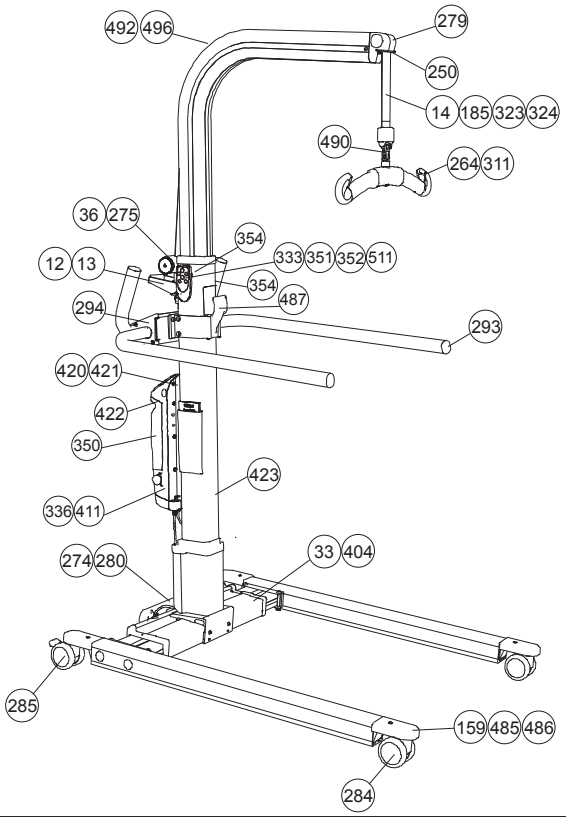
PROD. NO.	PRODUCT
2000019	Golvo 8008 LowBase (intelligent control box)
2000039	Golvo 8008 LowBase (intelligent control box and cable hand control)



Spare Parts Position

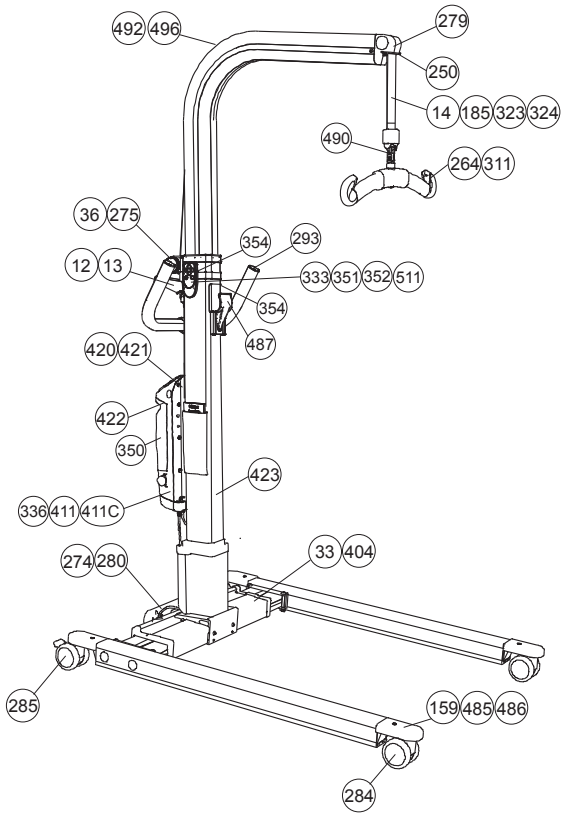
PROD. NO. PRODUCT

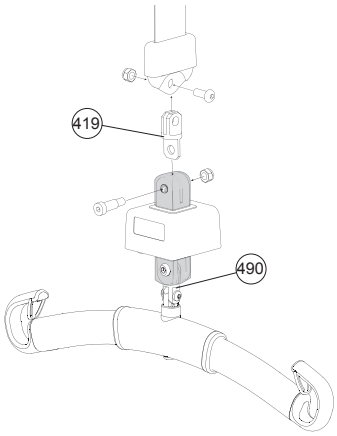
2000014 Golvo 8000 (intelligent control box)
2000015 Golvo 8008 (intelligent control box)
2000034 Golvo 8000 (intelligent control box and cable hand control)
2000035 Golvo 8008 (intelligent control box and cable hand control)

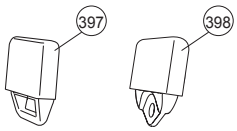


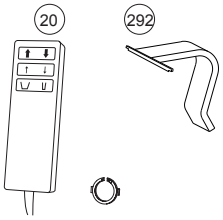
PROD. NO. PRODUCT

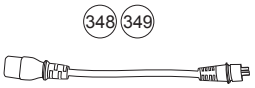
2000024 Golvo 8000 Classic (intelligent control box)
2000025 Golvo 8008 Classic (intelligent control box)

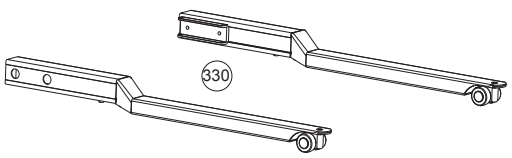




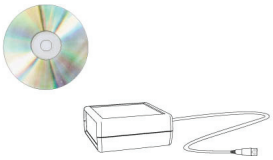








Service Tools, see page 79



Liko Service System

Liko Diagnostic System

Technical Data

Golvo 8000 / 8008

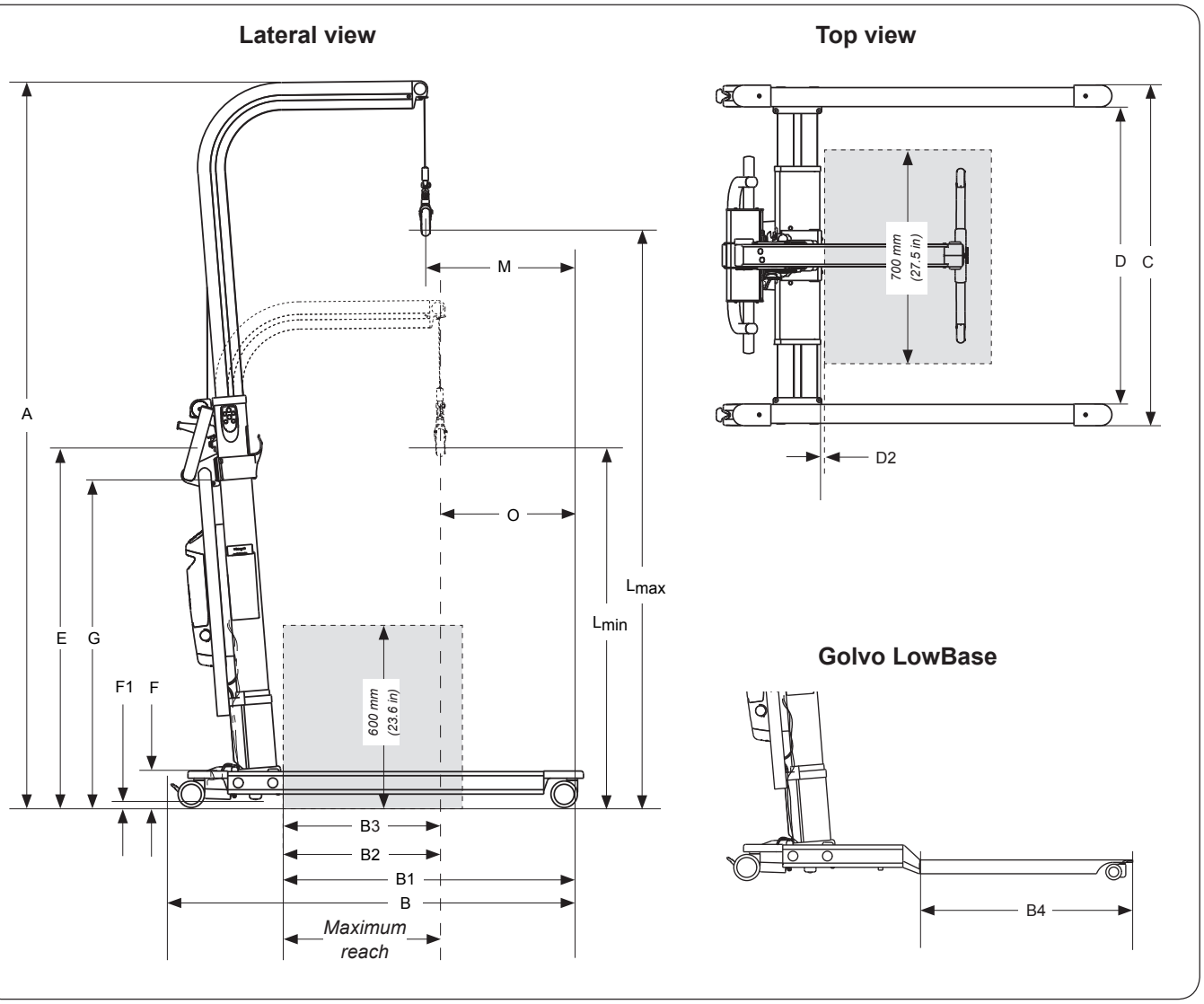


Table of measurements

(mm)

Model	A		B	B1	B2	B3*	B4	C		D		D2*	E	F	F1	G	L_{max}	L_{min}	M	O
	max.	min.						max.	min.	max.	min.									
Golvo 8000	1995	1360	1115	800	435	435	-	938	654	826	543	0	975	105	25	840	1735	475	440	362
Golvo 8008	2090	1455	1185	870	480	480	-	1020	735	907	623	0	1100	105	25	940	1860	600	436	391
Golvo Low-Base	2090	1455	1185	870	480	480	600	1028	745	907	623	0	1100	60 / 105	22	940	1860	600	436	391

(Inch.)

Model	A		B	B1	B2	B3*	B4	C		D		D2*	E	F	F1	G	L_{max}	L_{min}	M	O
	max.	min.						max.	min.	max.	min.									
Golvo 8000	78.5	53.5	43.9	31.5	17.1	17.1	-	36.9	25.7	32.5	21.4	0	38.4	4.1	1.0	33.0	68.3	18.7	17.3	12.8
Golvo 8008	82.3	57.3	46.6	34.2	18.9	18.9	-	40.2	28.9	35.7	623	0	43.3	4.1	1.0	37	73.2	23.6	17.2	15.4
Golvo Low-Base	82.3	57.3	46.6	34.2	18.9	18.9	23.6	40.5	29.3	35.7	623	0	43.3	2.4 / 4.1	0.9	37	73.2	23.6	17.2	15.4

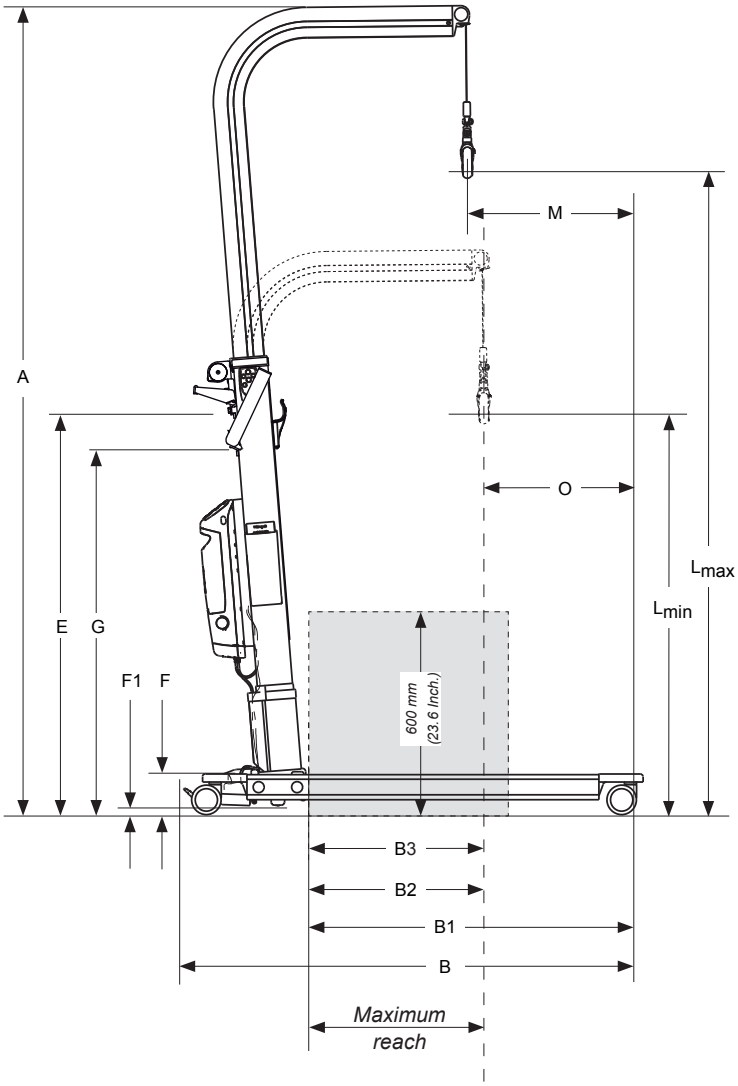
The lifting interval 1260 mm (50 inch.) is height-adjustable. Lifting height dimensions are based on the lift being equipped with a standard sling bar and standard wheels. When changing to other lifting accessories, check that the lift still achieves the desired lifting height.

* Reference measurement according to Standard EN ISO 10535:2006.

Technical Data

Golvo 8000 Classic / 8008 Classic

Lateral view



Top view

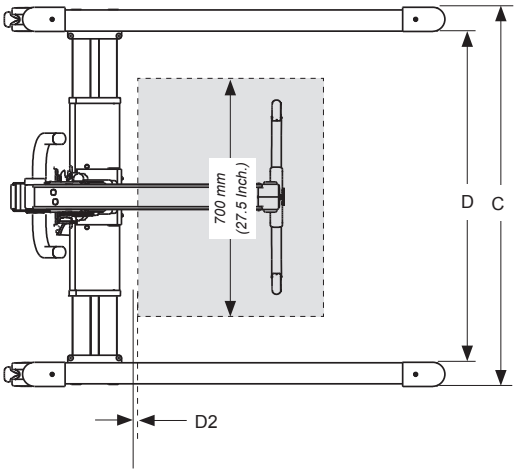


Table of measurements

(mm)

Model	A		B	B1	B2	B3*	B4	C		D		D2*	E	F	F1	G	L_{max}	L_{min}	M	O
	max.	min.						max.	min.	max.	min.									
Golvo 8000	1995	1360	1115	800	435	435	-	938	654	826	543	0	975	105	25	840	1735	475	440	362
Golvo 8008	2090	1455	1185	870	480	480	-	1020	735	907	623	0	1100	105	25	940	1860	600	436	391

(Inch.)

Model	A		B	B1	B2	B3*	B4	C		D		D2*	E	F	F1	G	L_{max}	L_{min}	M	O
	max.	min.						max.	min.	max.	min.									
Golvo 8000	78.5	53.5	43.9	31.5	17.1	17.1	-	36.9	25.7	32.5	21.4	0	38.4	4.1	1.0	33.0	68.3	18.7	17.3	12.8
Golvo 8008	82.3	57.3	46.6	34.2	18.9	18.9	-	40.2	28.9	35.7	623	0	43.3	4.1	1.0	37	73.2	23.6	17.2	15.4

The lifting interval 1260 mm (50 inch.) is height-adjustable. Lifting height dimensions are based on the lift being equipped with a standard sling bar and standard wheels. When changing to other lifting accessories, check that the lift still achieves the desired lifting height.

* Reference measurement according to Standard EN ISO 10535:2006.

Technical Data

Golvo 8000 / 8008 with IR Hand Control

Maximum load:	200 kg (440 lbs)
Material:	Anodised aluminium
Weight:	8000: 42 kg (92 lbs) 8008: 44 kg (97 lbs) 8008 LowBase: 46 kg (101 lbs) Heaviest removable part: 8000: 18 kg (40 lbs) 8008: 19 kg (42 lbs) 8008 LowBase: 21 kg (46 lbs)
Wheels:	Front: 75 mm* (3 inch.) twin wheels. *Golvo LowBase: 46 mm (1.8 inch.) twin wheels. Rear: 75 mm (3 inch.) twin wheels with brakes
Turning diameter:	Golvo 8000: 1240 mm (49 inch.) Golvo 8008: 1330 mm (52 inch.) Golvo 8008 LowBase: 1330 mm (52 inch.)
Emergency lowering device:	Mechanical and electrical
Lifting speed with no load:	Two speeds; 41 mm/s (1.61 inch/s) and 33 mm/s (1.3 inch/s)
Lifting interval:	1260 mm (50 inch.) (height-adjustable)
Sound level:	52,8 dB(A)
Protection class:	IP X4
Operating forces, controls:	Buttons on hand control: 4 N Button on display: 4 N
HandControl IR:	Batteries: 2 AAA LR03 1.5 V, alkaline. Reach: 2 m (78.74 inch.)
Electrical data:	24 V
Intermittent operation:	Int. Op 10/90, active operation max 2 min. Only 10% of a given length of time may be active, yet no more than 2 min.
Battery:	NiMH cells, 2.2 Ah. New batteries provided by the supplier.
Battery charger:	CBL20001, built-in, 100-240 V AC, 50-60 Hz, max 600 mA.
Lift motor:	24 V, 6.5 A
Motor for base-width adjustment:	24 V, 3.5 A

The device is intended for use indoors.

Type B, in accordance with the electrical shock protection class.

Class II equipment.

Protected by Patent

Technical Data

Golvo 8000 Classic / 8008 Classic with IR Hand Control

Maximum load:	200 kg
Material:	Anodised aluminium
Weight:	Golvo 8000 Classic: 39 kg (86 lbs) Golvo 8008 Classic: 41 kg (90 lbs) Heaviest removable part: Golvo 8000 Classic: 18 kg (40 lbs) Golvo 8008 Classic: 19 kg (42 lbs)
Wheels:	Front: 75 mm* (3 inch.) twin wheels. Rear: 75 mm (3 inch.) twin wheels with brakes
Turning diameter:	Golvo 8000 Classic: 1240 mm (49 inch.) Golvo 8008 Classic: 1330 mm (52 inch.)
Emergency lowering device:	Mechanical and electrical
Lifting speed with no load:	Two speeds; 41 mm/s (1.61 inch/s) and 33 mm/s (1.3 inch/s)
Lifting interval:	1260 mm (50 inch.) (height-adjustable)
Sound level:	52,8 dB(A)
Protection class:	IP X4
Operating forces, controls:	Buttons on hand control: 4 N Button on display: 4 N
HandControl IR:	Batteries: 2 AAA LR03 1.5 V, alkaline. Reach: 2 m (78.74 inch.)
Electrical data:	24 V
Intermittent operation:	Int. Op 10/90, active operation max 2 min. Only 10% of a given length of time may be active, yet no more than 2 min.
Battery:	NiMH cells, 2.2 Ah. New batteries provided by the supplier.
Battery charger:	CBL20001, built-in, 100-240 V AC, 50-60 Hz, max 600 mA.
Lift motor:	24 V, 6.5 A
Motor for base-width adjustment:	24 V, 3.5 A

The device is intended for use indoors.

Type B, in accordance with the electrical shock protection class.

Class II equipment.

Protected by Patent

Technical Data

Golvo 8000 / 8008, with fixed Hand Control

Maximum load:	200 kg (440 lbs)
Material:	Anodised aluminium
Weight:	8000: 42 kg (92 lbs) 8008: 44 kg (97 lbs) 8008 LowBase: 46 kg (101 lbs) Heaviest removable part: 8000: 18 kg (40 lbs) 8008: 19 kg (42 lbs) 8008 LowBase: 21 kg (46 lbs)
Wheels:	Front: 75 mm* (3 in) twin wheels. *Golvo LowBase: 46 mm (1.8 in) twin wheels. Rear: 75 mm (3 in) twin wheels with brakes.
Turning diameter	Golvo 8000: 1240 mm (49 in) Golvo 8008: 1330 mm (52 in) Golvo 8008 LowBase: 1330 mm (52 in)
Emergency lowering device:	Mechanical and electrical
Lifting Speed no load	Two speeds; 41 mm/s (1.61 in/s) and 33 mm/s (1.3 In/s)
Lifting interval:	1260 mm (49.6 in) (height-adjustable)
Sound level:	52.8 dB(A)
Protection class:	IP X4
Operating forces, controls:	Buttons on hand control: 2.4 N Button on display: 4 N
Electrical data:	24 V
Intermittent power:	Int. Op 10/90, active operation max 2 min. Only 10% of a given length of time may be active, but no more than 2 min.
Battery:	NiMH cells, 2.2 Ah. New batteries provided by the supplier.
Battery charger:	CBL20002, built-in, 100-240 V AC, 50-60 Hz, max 600 mA.
Lift motor:	24 V, 6.5 A
Motor for base-width adjustment:	24 V, 3.5 A

The device is intended for use indoors.

Type B, in accordance with the electrical shock protection class.

Class II equipment.

Protected by Patent

Troubleshooting

Golvo 8000/8008 with IR Hand control

The lift cannot be controlled via HandControl IR.

1. Check that the emergency stop has not been activated.
2. Make sure that the charging cable is not connected to an electric outlet.
3. Check if HandControl IR indicates battery change.
4. If the lift has been inactive for 24 hours, enable the system, press optional button on the operation panel.
5. Make sure that the HandControl IR control is enabled.
6. *If the problem remains, see "The lift cannot be controlled via the operation panel", below.*

The lift cannot be controlled via the operation panel.

1. Make sure that the emergency stop has not been activated.
2. Check that the charger cable is not connected to an electric outlet.
3. Check the battery capacity.
4. Make sure that the cables to the control box are connected correctly.
5. Check that the battery's contact plates are not defective or broken.
6. *If the problem remains, please contact Liko/Hill-Rom.*

The charger doesn't work.

1. Make sure that the emergency stop has not been activated.
2. Make sure that the battery is properly attached.
3. Check that the battery pack's contact plates are not defective or broken.
4. *If the problem remains, please contact Liko/Hill-Rom.*

The lift is stuck in the high position.

1. Make sure that the emergency stop has not been activated.
2. Check the battery capacity.
3. HandControl IR indicates battery change.
4. Use the indicated electrical emergency lowering to lower the patient onto a firm surface.
5. Use the indicated mechanical emergency lowering to lower the patient onto a firm surface.
6. *If the problem remains, please contact Liko/Hill-Rom.*

The lift does not reach maximum lifting height.

1. Check that the lifting interval level is correctly set.
2. *If the problem remains, please contact Liko/Hill-Rom.*

If you hear unusual sounds.

Contact Liko/Hill-Rom.

Troubleshooting

Golvo 8000/8008 with fixed Hand Control

The lift cannot be operated with the hand control.

1. Check that the emergency stop button has not been pressed.
2. Check the battery capacity.
3. Check that the charger cable is not connected to an electric outlet.
4. Check that the hand control cable is correctly connected.
5. If the lift works via the operation panel, change the Hand Control.
6. *If the problem persists, please contact Liko/Hill-Rom.*

The lift does not work up/down with the operation panel.
The base-width adjustment doesn't work (in/out) with the operation panel.

1. Check that the emergency stop button has not been pressed.
2. Check that the cables to the control box are connected correctly.
3. Check that the charger cable is not connected to an electric outlet.
4. Check the battery capacity.
5. *If the problem persists, please contact Liko/Hill-Rom.*

The charger doesn't work.

1. Check that the emergency stop button has not been pressed.
2. Check that the charger cables are connected correctly.
3. Make sure that the battery is properly attached.
4. *If the problem persists, please contact Liko/Hill-Rom.*

The lift is stuck in the high position.

1. Check that the emergency stop button has not been pressed.
2. Check the battery capacity.
3. Check that the hand control cable is connected correctly.
4. Electrical emergency lowering, use the operation panel to lower the patient onto a firm surface.
5. Use the mechanical emergency lowering device to lower the patient onto a firm surface.
6. *If the problem persists, please contact Liko/Hill-Rom.*

The lift does not reach maximum lifting height.

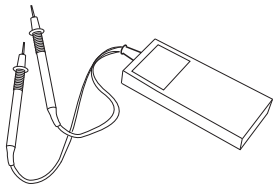
1. Check that the lifting interval level is correctly set.
2. *If the problem persists, please contact Liko/Hill-Rom.*

If any noises are heard.

Contact Liko/Hill-Rom.

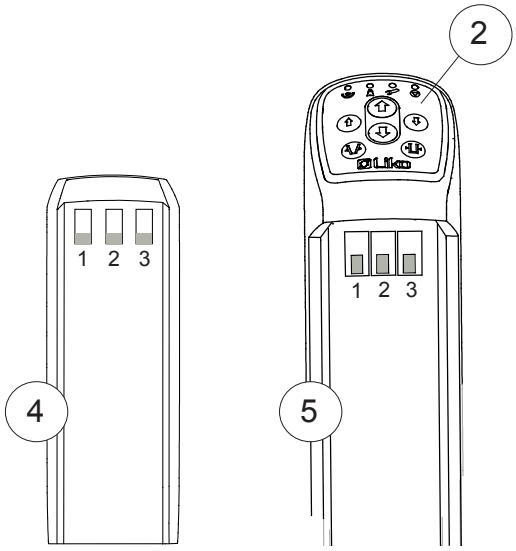
Trouble Shooting for CBL20

Tools Required



Multimeter

Note! Begin with Simple trouble shooting from Service manual for the actual product. If problem remains continue as described below.



Check point:

1. Make sure that:
- the emergency stop (1) is not activated.
- the battery is assembled correctly.
- the charging cable is not connected to mains.

2. Check operation panel function´s for actuator and base motor

Push control buttons on operation panel (2) at control box

- If both actuator and base motor functions response, continue to step 5.
- If no function, continue to step 3.
- If only one of either the actuator or base motor function response: change position on actuator and base motor cables then check control function of operation panel, to see if fault is on output channels or the motors. If control box function is ok! Continue to step 5.
  If control box is faulty. **Replace the control box.**

3. Check battery capacity

3a) Push in the battery capacity button (3):
- If any of the three LED´s on the battery start´s the battery is OK, continue to step 4.
- If not, continue to step 3b.

3b) Measure battery voltage: release battery, (4) measure on contact 1 and 3:
- If voltage over 0V the battery is ok! Continue to step 4.

4. Verify contact between control box and battery.

4a) Remove the battery and wait for green LED to turn off.

4b) Put back the battery and see if green LED start automatically.
- If green LED starts, battery contact is ok!
- If not, try to ensure that the battery´s contact plates are not defective or broken and try to bend them out carefully, then repeat step 4.
- If still no contact, continue to step 5.

5. Check charging function

5a) Connect the charging cable to mains
- If charging starts within 1 minute, charge and then continue to step 6.
- If charging doesn´t start, continue to step 5b.

5b) Measure output voltage on the control box (5) on contact 1 and 3.
- If voltage is 3-4V charging is OK! **Replace the battery**, continue to step 6.
- If voltage is 0V when the charging cable is connected to mains the control box needs to be replaced! **Replace the control box**.

6. Charge the battery until green LED is flashing, on the battery.
- Check that all function´s on the control box is ok!
  If not , **Replace control box**.

Customers FAQ:

- The liftarms up/down function or base width in/out function doesn´t work?
a) Change position on actuator and base motor cables.
b) Perform step 2 and see if fault is on output channel or motors.

- The control panel function´s on controlbox is ok, but the hand control has no function?
a) Check to ensure that battery contact plates in the hand control are not defective or broken.

- There´s no charging function?
a) Verify contact between control box and battery. Perform step 4.
b) Check charging function. Perform step 5.

SPARE PART NO.	POS. NO.	NAME	2000009	2000010	2000009	2000010	2000050	2000051	2000061	2000019	2000039	2000014	2000034	2000015	2000035	2000024	2000025
			7000 ES to S/N 7024205	7007 ES to S/N 7729721	7000 ES fr. S/N 7024206 (Face lift)	7007 ES fr. S/N 7729722 (Face lift)	7000 ES Classic	7007 ES Classic	7007 LowBase	8008 LowBase	8008 LowBase Cable	8000	8000 Cable	8008	8008 Cable	8000 Classic	8008 Classic
20090003	3	Middle Beam G7	x														
20090004	4	Middle Beam G77		x													
20090013	10	Armrest complete G7 / 77	x	x													
20090014	11	Actuator G7 / 77	x	x	x	x	x	x	x								
20090015	12	Emergency Lowering Device Golvo, grey	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x
20090016	13	Body/Handle set for Em.Low. Device G7 / 77	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x
20090018	14	Lift Strap G7/G8	x		x		x					x	x			x	
20090019	15	Lift Strap G77 to S/N 7723629		(x)													
20090020	16	Roll Frame Attach. G7 / 77	x	x													
20090022	18	Control Box G7-77 ES	x	x	x	x	x	x	x								
20090023	19	Attachment for Control Box	x	x	x	x	x	x	x								
20090089	20	Hand Control 6-Button	x	x	x	x	x	x	x		x		x		x		
20090026	22	Cable for charging EU	x	x	x	x	x	x	x								
20090027	23	Cable for charging UK	x	x	x	x	x	x	x								
20090028	24	Cable for charging US	x	x	x	x	x	x	x								
20090034	29	Front Wheel 75 mm	x	x													
20090035	30	Rear Wheel 100 mm	x	x													
20090036	31	Front Fork Cover G7 / 77	x	x													
20090037	32	Rear Fork Cover G7 / 77	x	x													
20090038	33	Gear Rack set G7 / 77	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x
20090039	34	End Cover Handle/Arm Support	x	x													
20090040	35	End Cover Armrest	x	x													
20090041	36	Spring Magazine	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x
20090042	37	Front Wheel 50 mm	x	x													
20090043	38	Front Wheel 100 mm	x	x													

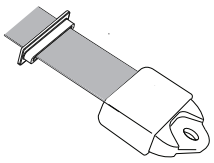
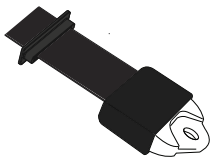
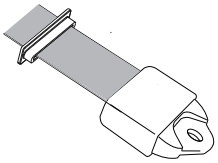
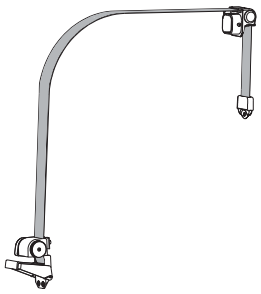
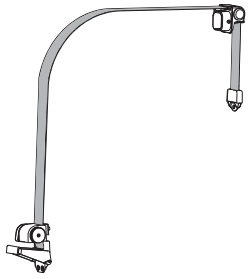
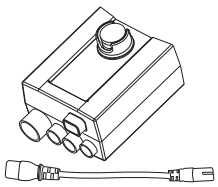
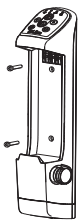
SPARE PART NO.	POS. NO.	NAME	2000009	2000010	2000009	2000010	2000050	2000051	2000061	2000019	2000039	2000014	2000034	2000015	2000035	2000024	2000025
			7000 ES to S/N 7024205	7007 ES to S/N 7729721	7000 ES fr. S/N 7024206 (Face lift)	7007 ES fr. S/N 7729722 (Face lift)	7000 ES Classic	7007 ES Classic	7007 LowBase	8008 LowBase	8008 LowBase Cable	8000	8000 Cable	8008	8008 Cable	8000 Classic	8008 Classic
20090044	39	Rear Wheel 75 mm	x	x													
20090045	40	Rear Wheel 125 mm	x	x													
31190008	79	Plastic Housing	x	x													
20190078	86	SlingBar Standard 450	x	x													
31190018	87	Safety Latch	x	x													
2006106	139	Extra Battery	x	x	x	x	x	x	x								
20390006	159	Front Fork Cover			x	x	x	x	x	x	x	x	x	x	x	x	x
21090001	160	Extension Cable	x	x	x	x	x	x	x								
20090048	185	Lift Strap G77 ES /G88		x		x		x	x	x	x			x	x		x
20090049	218	Base Motor Cover	x	x													
20090050	248	Cable for Charging AU/NZ	x	x	x	x	x	x	x								
20090051	250	Reinforcement Plate	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x
20090052	251	Limit Switch G7 / 77	x	x	x	x	x	x	x								
21090011	263	Extension Cable US	x	x	x	x	x	x	x								
31590011	264	Latch Universal SlingBar			x	x	x	x	x	x	x	x	x	x	x	x	x
20090059	274	Motor for Base with Adjustment Golvo, grey	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x
20090060	275	Plastic Housing, grey			x	x	x	x	x	x	x	x	x	x	x	x	x
20090064	279	Roll Frame Attachment Golvo, grey			x	x	x	x	x	x	x	x	x	x	x	x	x
20090065	280	Base Motor Cover, grey			x	x	x	x	x	x	x	x	x	x	x	x	x
20490014	284	Front Wheel 75 mm Standard			x	x	x	x				x	x	x	x	x	x
20490015	285	Rear Wheel 75 mm , Std			x	x	x	x	x	x	x	x	x	x	x	x	x
20090058	292	Hook for Hand control	x	x	x	x	x	x	x		x		x		x		
20090066	293	End Cover Handle/Arm Support, grey			x	x	x	x	x	x	x	x	x	x	x	x	x
20090067	294	End Cover Armrest, grey			x	x			x	x	x	x	x	x	x		

SPARE PART NO.	POS. NO.	NAME	2000009	2000010	2000009	2000010	2000050	2000051	2000061	2000019	2000039	2000014	2000034	2000015	2000035	2000024	2000025
			7000 ES to S/N 7024205	7007 ES to S/N 7729721	7000 ES fr. S/N 7024206 (Face lift)	7007 ES fr. S/N 7729722 (Face lift)	7000 ES Classic	7007 ES Classic	7007 LowBase	8008 LowBase	8008 LowBase Cable	8000	8000 Cable	8008	8008 Cable	8000 Classic	8008 Classic
31590014	311	Latch, composite			x	x	x	x	x	x	x	x	x	x	x	x	x
20090069	323	Easy Strapper G7/G8	x		x		x					x	x			x	
20090070	324	Easy Strapper G77/G88 from S/N 7723630		x		x		x	x	x	x	x	x	x	x		x
20090071	330	Low base kit Golvo 7007/8008		x		x		x	x	x	x			x	x		x
20490031	333	Wireless hand control HBL20								x		x		x		x	x
20490039	336	Control Unit CBL, by S/N								x		x		x		x	x
20490054	336C	Control Unit CBL by S/N, cable									x		x		x		
21090018	348	Extension cable CBL20								x	x	x	x	x	x	x	x
21090019	349	Extension cable CBL20, US								x	x	x	x	x	x	x	x
2006107	350	Extra Battery Box								x	x	x	x	x	x	x	x
21090020	351	Beltclip HBL20								x		x		x		x	x
21090021	352	Clips with hook HBL20								x		x		x		x	x
21090022	353	Charge cable hook								x	x	x	x	x	x	x	x
21090023	354	Hand control hanger								x		x		x		x	x
31590005	397	Q-link	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x
31590025	398	Lift strap joint	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x
20090072	404	Friction plates 2,8-3,4 mm	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x
20090073	411	Control Unit CBL, Golvo								x	x	x	x	x	x	x	x
20090088	411C	Control Unit CBL, Golvo Cable									x		x		x		
20490037	413	Rear Wheel fork	x	x													
2006010	419	Adapter Golvo (for Scale)	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x
20090074	420	Limit Switch Box								x	x	x	x	x	x	x	x
20090076	421	Limit Switch PCBA								x	x	x	x	x	x	x	x
20090077	422	Locking device CBL20,								x	x	x	x	x	x	x	x

SPARE PART NO.	POS. NO.	NAME	2000009	2000010	2000009	2000010	2000050	2000051	2000061	2000019	2000039	2000014	2000034	2000015	2000035	2000024	2000025
			7000 ES to S/N 7024205	7007 ES to S/N 7729721	7000 ES fr. S/N 7024206 (Face lift)	7007 ES fr. S/N 7729722 (Face lift)	7000 ES Classic	7007 ES Classic	7007 LowBase	8008 LowBase	8008 LowBase Cable	8000	8000 Cable	8008	8008 Cable	8000 Classic	8008 Classic
20090078	423	Actuator G8-88								x	x	x	x	x	x	x	x
21090028	425	Grease SHC460 30g	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x
20090080	485	Fork locking attachment			x	x	x	x	x	x	x	x	x	x	x	x	x
20090081	486	Wheel Fork			x	x	x	x	x	x	x	x	x	x	x	x	x
20090082	487	Parking bracket			x	x	x	x	x	x	x	x	x	x	x	x	x
20490052	490	SlingBar Assembly set	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x
20090085	492	Lift strap Cover Strip 7007/8008				x		x	x	x	x	x	x	x	x		x
20090087	496	Lift strap Cover Strip 7000/8000			x		x					x	x			x	
20490057	511	Locking Ring CBL									x		x		x		
20490060	512	Front Wheel Fork	x	x													
2006001	514	Parking Hook for SlingBar	x	x													
2004304	515	Wheel Set 50/75	x	x													
2004305	516	Wheel Set 100/125	x	x													

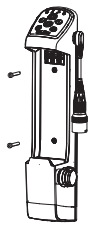
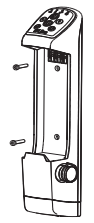
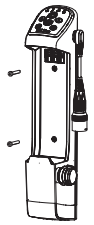
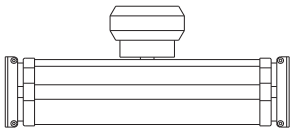
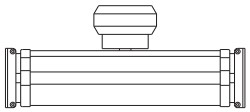
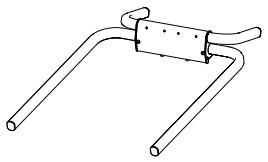
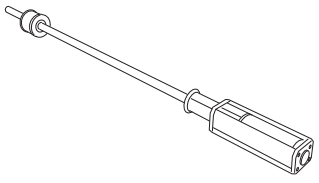
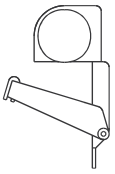
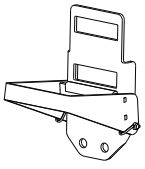
Golvo

(G7=Golvo 7000, G77=Golvo 7007, G8=Golvo 8000, G88=Golvo 8008)

PROD. NO.	POS. NO.	NAME	UNIT	
Golvo LiftStrap				
20090018	14	Lift Strap G7 / G8 *Grey strap and grey plastic details*	pce	
20090019	15	Lift Strap G77 up to S/N 7723629	pce	
20090048	185	Lift Strap G77 (from S/N: 7723630) / G88 *Grey strap and grey plastic details*	pce	
20090069	323	Easy Strapper G7 / G8 *Grey strap and grey plastic details*	set	
20090070	324	Easy Strapper G77 from S/N 7723630 / G88 *Grey strap and grey plastic details*	set	
Golvo Control Units				
20090022 20090022US	18 18	Control Box G7 / 77 ES Control Box G7 / 77 ES, US only for the US market	pce pce	
20490039	336	Control Unit CBL, by S/N ***Can only be ordered if S/N (serial number) can be provided to Liko Customer Service.*** ***Will be programmed at Liko before delivery.*** ***2 weeks delivery time from Liko.***	pce	

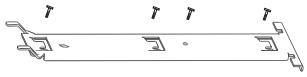
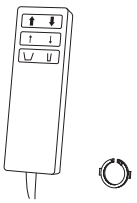
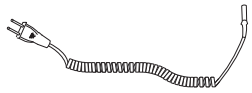
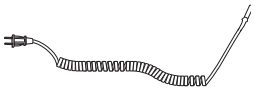
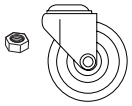
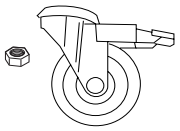
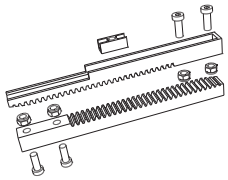
Golvo

(G7=Golvo 7000, G77=Golvo 7007, G8=Golvo 8000, G88=Golvo 8008)

PROD. NO.	POS. NO.	NAME	UNIT	
20490054	336C	Control Unit CBL by S/N, Cable ***Can only be ordered if S/N (serial number) can be provided to Liko Customer Service.*** ***Will be programmed at Liko before delivery.*** ***2 weeks delivery time from Liko.***	pce	
20090073	411	Control Unit CBL, Golvo ***Before use; requires Software and, needs to be programmed with Liko Service System,*** ***Prod. No. 21090024***	pce	
20090088	411C	Control Unit CBL Golvo, Cable ***Before use; requires Software and, needs to be programmed with Liko Service System,*** ***Prod. No. 21090024***	pce	
		Golvo Spare Parts		
20090003	3	Middle Beam G7 *up to S/N 7024205*	pce	
20090004	4	Middle Beam G77 *up to S/N 7729721*	pce	
20090013	10	Armrest complete G7 / 77 *up to S/N 7024205 / 7729721*	set	
20090014	11	Actuator G7 / 77 *For Golvo 7000/7007 with S/N 700001-702297 / 770001 - 771050 the mast must be modified according to the Service Manual*	pce	
20090015	12	Emergency Lowering Golvo, grey	pce	
20090016	13	Body/Handle set for Emergency Lowering Device	pce	

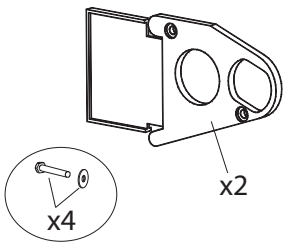
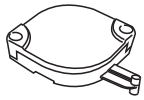
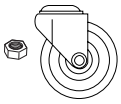
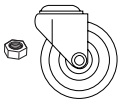
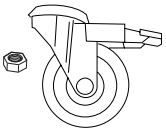
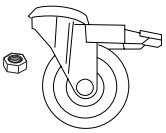
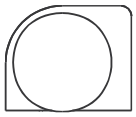
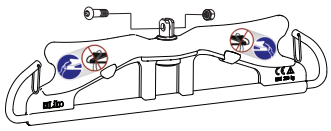
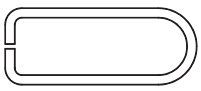
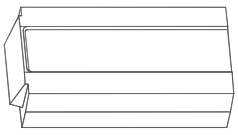
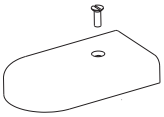
Golvo

(G7=Golvo 7000, G77=Golvo 7007, G8=Golvo 8000, G88=Golvo 8008)

PROD. NO.	POS. NO.	NAME	UNIT	
20090020	16	Roll Frame Attachment G7 / 77 *up to S/N 7024205 / 7729721*	pce	
20090023	19	Attachment for Control Box	pce	
20090089	20	Hand control 6-Button	pce	
20090026	22	Cable for charging EU	pce	
20090027	23	Cable for charging UK	pce	
20090028	24	Cable for charging US	pce	
20090034	29	Front Wheel 75 mm *up to S/N 7024205 / 7729721*	pce	
20090035	30	Rear Wheel 100 mm *up to S/N 7024205 / 7729721*	pce	
20090036	31	Front Fork Cover G7 / 77 *up to S/N 7024205 / 7729721*	pair	
20090037	32	Rear Fork Cover G7 / 77 *up to S/N 7024205 / 7729721*	pair	
20090038	33	Gear Rack set	set	
20090039	34	End Cover Handle/Arm Support *up to S/N 7024205 / 7729721*	set	

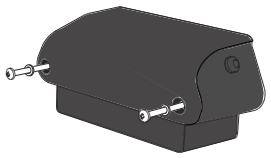
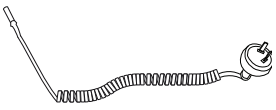
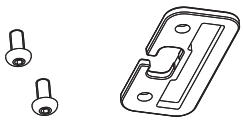
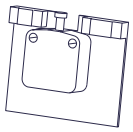
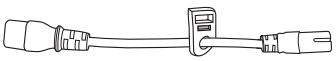
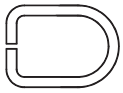
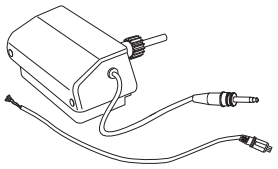
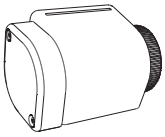
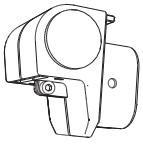
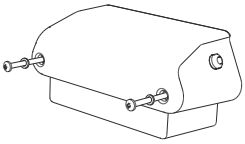
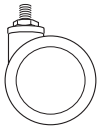
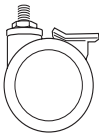
Golvo

(G7=Golvo 7000, G77=Golvo 7007, G8=Golvo 8000, G88=Golvo 8008)

PROD. NO.	POS. NO.	NAME	UNIT	
20090040	35	End Cover Armrest *up to S/N 7024205 / 7729721*	pair	
20090041	36	Spring Magazine	pce	
20090042	37	Front Wheel 50 mm *up to S/N 7024205 / 7729721*	pce	
20090043	38	Front Wheel 100 mm *up to S/N 7024205 / 7729721*	pce	
20090044	39	Rear Wheel 75 mm *up to S/N 7024205 / 7729721*	pce	
20090045	40	Rear Wheel 125 mm *up to S/N 7024205 / 7729721*	pce	
31190008	79	Plastic Housing *up to S/N 7024205 / 7729721*	pce	
20190078	86	SlingBar Standard 450 *up to S/N 7024205 / 7729721*	pce	
31190018	87	Latch *up to S/N 7024205 / 7729721*	pair	
2006106	139	Extra Battery	pce	
20390006	159	Front Fork Cover LL, Vi, Golvo *from S/N 7024206 / 7729722*	pair	
21090001	160	Extension Cable	pce	

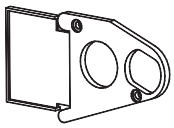
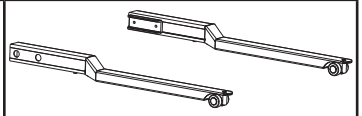
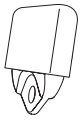
Golvo

(G7=Golvo 7000, G77=Golvo 7007, G8=Golvo 8000, G88=Golvo 8008)

PROD. NO.	POS. NO.	NAME	UNIT	
20090049	218	Base Motor Cover , black *fits S/N: G7 7021494 - 7024205* *G77 7722428 - 7729721*	pce	
20090050	248	Cable for Charging AU/NZ	pce	
20090051	250	Reinforcement Plate Golvo *from S/N: 7022914 / 7725944*	pce	
20090052	251	Limit Switch G7 / 77	pce	
21090011	263	Extension Cable US	pce	
31590011	264	Latch Universal SlingBar	pair	
20090059	274	Motor Base Width Adjustment Golvo, grey *replaces 20090005 and 20090046*		
20090060	275	Plastic Housing grey *from S/N 7024206 / 7729722*	pce	
20090064	279	Roll Frame Attachment Golvo, grey *from S/N 7024206 / 7729722*	pce	
20090065	280	Base Motor Cover grey *from S/N 7024206 / 7729722*	set	
20490014	284	Front Wheel 75 mm Standard *from S/N 7024206 / 7729722*	pce	
20490015	285	Rear Wheel 75 mm Standard *from S/N 7024206 / 7729722*	pce	

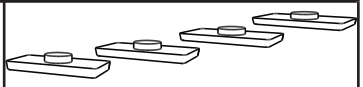
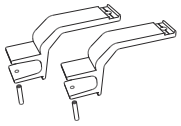
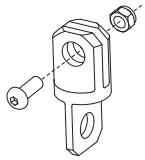
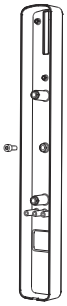
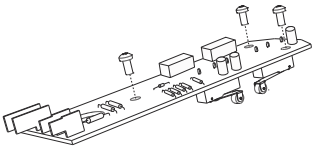
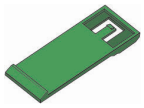
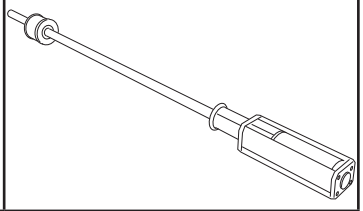
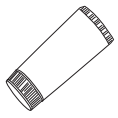
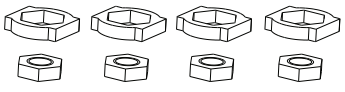
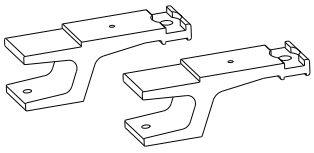
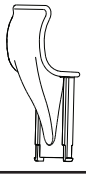
Golvo

(G7=Golvo 7000, G77=Golvo 7007, G8=Golvo 8000, G88=Golvo 8008)

PROD. NO.	POS. NO.	NAME	UNIT	
20090058	292	Hook for Hand control 2,4,6	pce	
20090066	293	End Cover Handle/Arm Support grey, 4 pce *from S/N 7024206 / 7729722*	set	
20090067	294	End Cover Armrest, grey *from S/N 7024206 / 7729722*	set	
31590014	311	Latch, composite *Fits Universal SlingBar from S/N 1299511*	pair	
20090071	330	Low base kit Golvo 7007/8008	set	
20490031	333	Wireless hand control HBL20	set	
21090018	348	Extension cable CBL	pce	
21090019	349	Extension cable CBL, US	pce	
2006107	350	Extra Battery Box	pce	
21090020	351	Beltclip HBL20	pair	
21090021	352	Clips with hook HBL20	pair	
21090022	353	Charge cable hook , 10 pce	set	
21090023	354	Hand control hanger, 10 pce	set	
31590005	397	Q-link	pce	
31590025	398	Lift strap joint	pce	

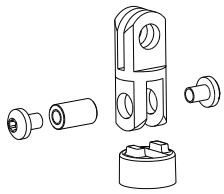
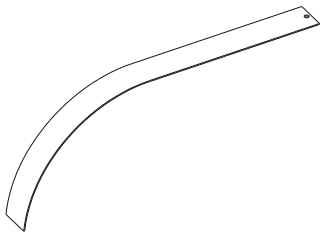
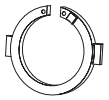
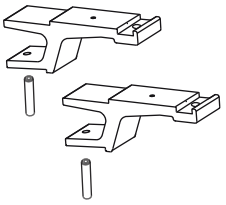
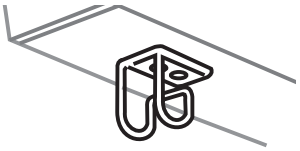
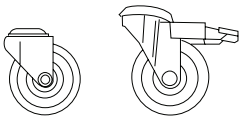
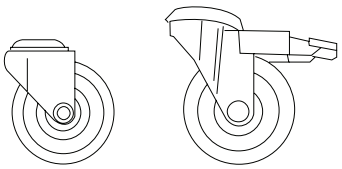
Golvo

(G7=Golvo 7000, G77=Golvo 7007, G8=Golvo 8000, G88=Golvo 8008)

PROD. NO.	POS. NO.	NAME	UNIT	
20090072	404	Friction plates 2.8-3.4 mm *20 pce of each model (2.8, 3.0, 3.2, 3.4 mm)*	set	
20490037	413	Rear Wheel fork *Golvo 7000, up to S/N 7024205* *Golvo 7007, up to S/N 7729721*	pair	
2006010	419	Adapter Golvo (for Scale)	set	
20090074	420	Limit switch box	set	
20090076	421	Limit Switch PCBA	set	
20090077	422	Locking device CBL20, 10 pce	set	
20090078	423	Actuator G8-88	pce	
21090028	425	Grease SHC460 30g	pce	
20090080	485	Fork locking attachment, 4 pair	set	
20090081	486	Wheel Fork	pair	
20090082	487	Parking bracket	pce	

Golvo

(G7=Golvo 7000, G77=Golvo 7007, G8=Golvo 8000, G88=Golvo 8008)

PROD. NO.	POS. NO.	NAME	UNIT	
20490052	490	SlingBar Assembly set	set	
20090085 20090087	492 496	Lift strap Cover Strip, 7007/8008 Lift strap Cover Strip, 7000/8000	pce pce	
20490057	511	Locking Ring CBL, 10 pce	set	
20490060	512	Front Wheel Fork	pair	
2006001	514	Parking Hook for SlingBar *Incl. mounting screws.*	set	
2004304	515	Wheel Set 50/75 (lower base clearance) *Fits: Golvo 7000 to S/N 7024205* *Golvo 7007 to S/N 7729721*		
2004305	516	Wheel Set 100/125 (higher base clearance) *Fits: Golvo 7000 to S/N 7024205* *Golvo 7007 to S/N 7729721*		

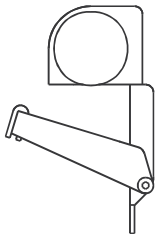
Emergency Lowering Golvo, grey
Nödsänkning Golvo, grå

Assembly Instruction
Monteringsanvisning

Prod. No. 20090015

3SE640253-02
2010-05-03

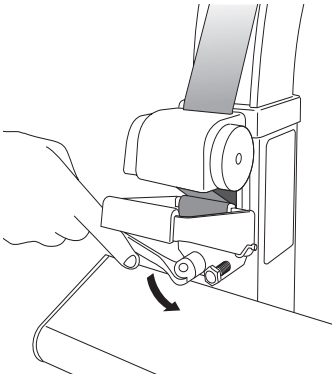
Contains:	**Qty:**
Locking pin 3x48	1
Friction profile	1
Body emergency lowering	1
Plastic Housing, grey	1 (was black before)
Cover spring magazine	1
Strap shaft emergency low	1
Axelstop Left emerg.	1
Axelstop right emerg.	1
Emergency lowering Handle	1
Screw K6S M5x12	1
Screw WN 1412,3x20	2
Tube 10x12 L=60 Alu. Emer	1
Nut M6M M5	1
Pin 6x30 emerg.	2
Spring magazine	1
Torsion spring Right	1
Torsion spring left	1

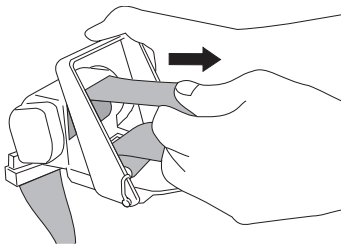


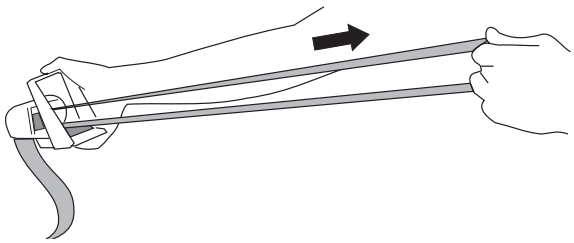
Fits:
Golvo 7000/7007 (all models)
Golvo 8000/8008 (all models)

Tools required:

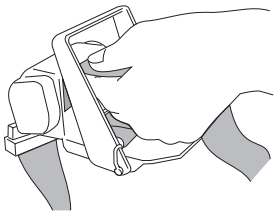
13 mm



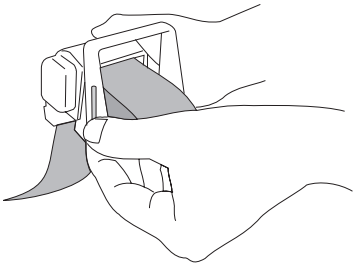




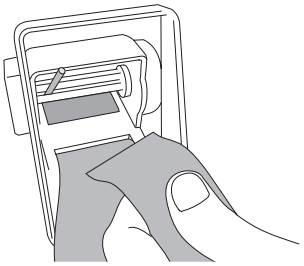
1. Pull the strap all the way out.



2. Hold the spring loaded wheel and release the strap by removing the pin.



3. Remove the pin. △Do not let go of the spring loaded wheel, since the tension will release.

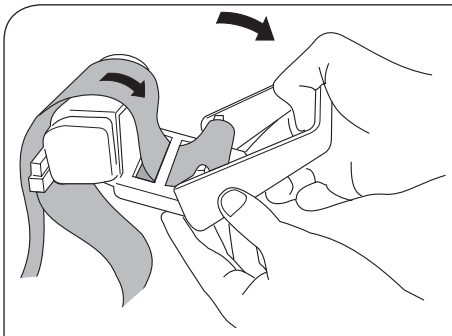


4. Use the pin to lock the axle where the strap was mounted.

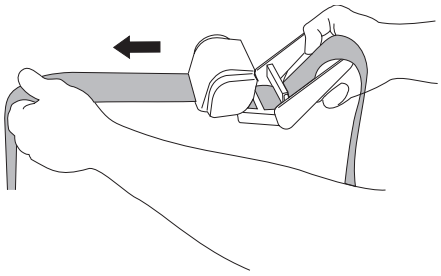
Emergency Lowering Golvo, grey
Nödsänkning Golvo, grå

Assembly Instruction
Monteringsanvisning

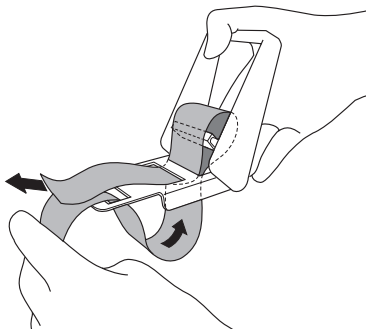
Prod. No. 20090015



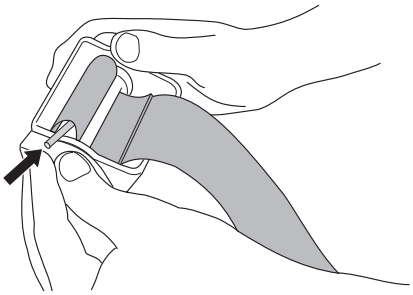
5. Push the emergency lowering handle down and pull the strap away.



6. Pull the rest of the strap out and remove the plastic housing.

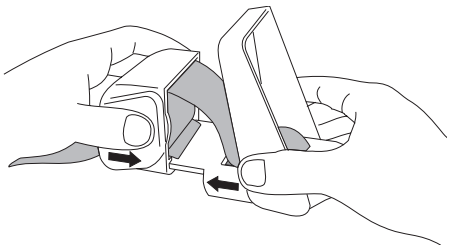


7. Mount the new strap through the plastic housing with the red mark towards the plastic housing and then as shown above.

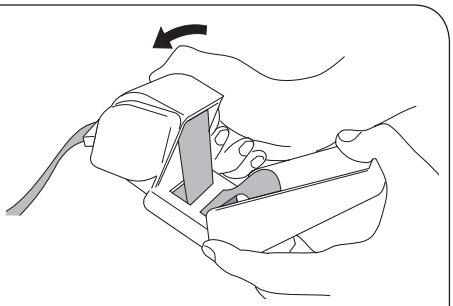


8. Mount the strap through the slot in the axle and the same way back.

Note! The axle has two different sides. Place the pin as shown to lock the strap. △ Do not let go of the spring loaded wheel, since the tension will release.



9. Push the plastic housing on to the strap joint.



10. Roll the strap up until the red mark reaches the plastic housing.

△ NOTE

- Make sure the spare part is mounted according to the assembly instruction.
- Check all functions related to the changed spare part.
- Repairs and maintenance may only be performed by personnel authorized by Hill-Rom/Liko and using original Liko spare parts.

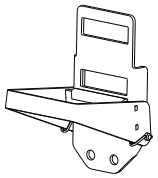
Body/Handle set for Emergency Lowering Device
Stomme handtag

Assembly Instruction
Monteringsanvisning

Prod. No. 20090016

3SE630285-02
2010-05-03

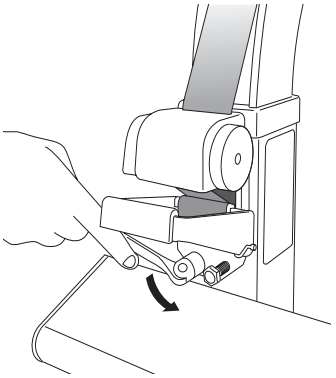
Contains:	Qty:
Body emergency lowering	1
Axelstop Left emerg.	1
Axelstop right emerg.	1
Emergency lowering Handle	1
Tube 10x12 L=60 Alu. Emer	1
Pin 6x30 emerg.	2
Friction profile	1
Torsion spring Right	1
Torsion spring left	1

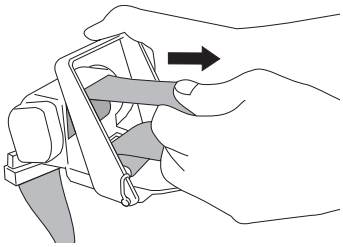


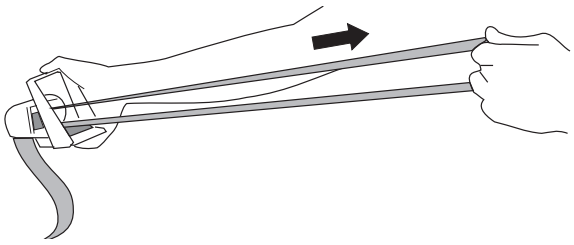
Fits:
Golvo 7000/7007 (all models)
Golvo 8000/8008 (all models)

Tools required:

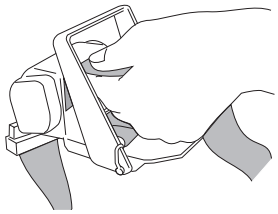
13 mm



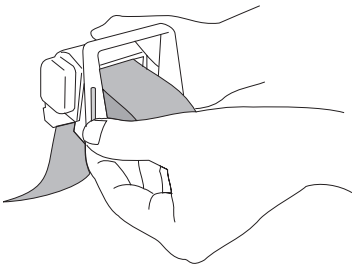




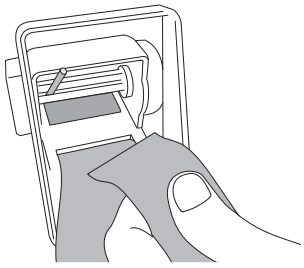
1. Pull the strap all the way out.



2. Hold the spring loaded wheel and release the strap by removing the pin.



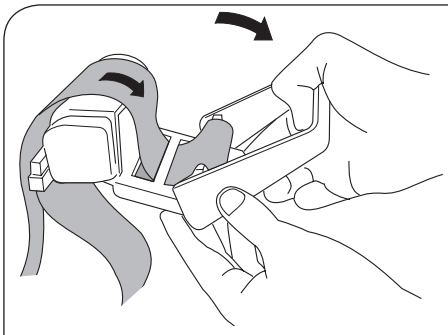
3. Remove the pin. △Do not let go of the spring loaded wheel, since the tension will release.



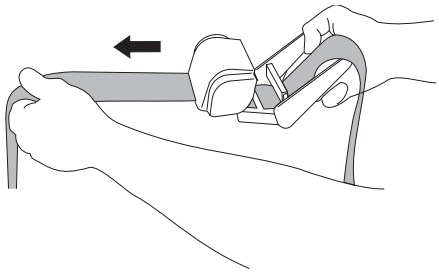
4. Use the pin to lock the axle where the strap was mounted.

Assembly Instruction
Monteringsanvisning

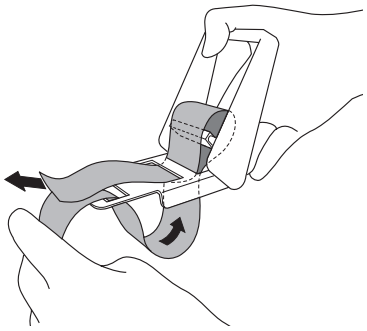
Prod. No. 20090016



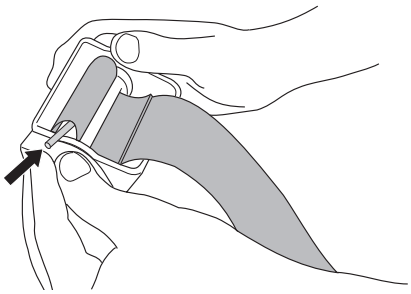
5. Push the emergency lowering handle down and pull the strap away.



6. Pull the rest of the strap out and remove the plastic housing.

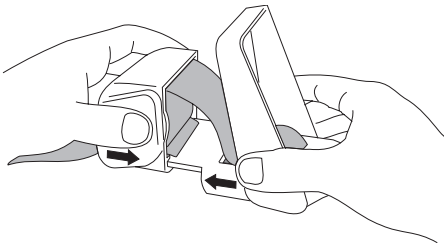


7. Mount the new strap through the plastic housing with the red mark towards the plastic housing and then as shown above.

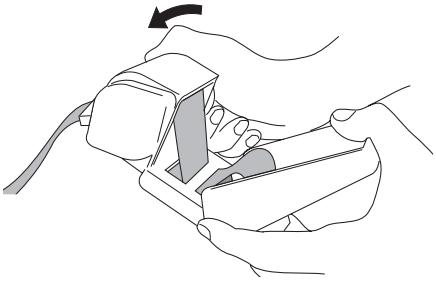


8. Mount the strap through the slot in the axle and the same way back.

Note! The axle has two different sides. Place the pin as shown to lock the strap. △ Do not let go of the spring loaded wheel, since the tension will release.



9. Push the plastic housing on to the strap joint.



10. Roll the strap up until the red mark reaches the plastic housing.

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- Check all functions related to the changed spare part.
- Repairs and maintenance may only be performed by personnel authorized by Hill-Rom/Liko and using original Liko spare parts.